

Notice of Allowability

Application No.

09/509,669

Examiner

Alessandro V. Amari

Applicant(s)

MURATA ET AL.

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/12/2003.
2. ☒ The allowed claim(s) is/are 1-12 and 16-18.
3. ☒ The drawings filed on 9/23/02 & 04/04/2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/4/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

REASONS FOR ALLOWANCE

Allowable Subject Matter

1. Claims 1-12 and 16-18 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest, "a mounting member having a principal surface, said mounting member entirely made of glass and having a core and a cladding formed therein, said cladding having its surface to form said principal surface in whole" as set forth in the claimed combination. Claims 2 and 3 are also allowable based upon their dependence on claim 1.

Claim 4 is allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest, "an optical waveguide entirely made of glass, having a core and a cladding formed therein and having a principal surface, with said optical element mounted on said principal surface, for guiding light emitted from said optical element or light admitted to said optical element, said cladding having its surface to form said principal surface in whole" as set forth in the claimed combination. Claims 5-12 and 16 are also allowable based upon their dependence on claim 4.

Claims 17 and 18 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest, "a mounting member having a principal surface, said mounting member entirely made of glass and having a core and a cladding formed therein, said cladding having its surface to form said principal surface in whole" as set forth in the claimed combination.

The prior art of record, Forrest et al and Hayashi teach an optical module comprising a mounting member having a principal surface, an interconnect formed on the mounting member, an optical element mounted on the principal surface and connected to the interconnect and a semiconductor element driving said optical element, said semiconductor element mounted on said principal surface and wherein said mounting member is an optical waveguide. However, neither Forrest nor Hayashi teach that the mounting member is the waveguide itself having a core and a cladding formed therein and wherein the cladding forms the principal surface in whole and there is no motivation or teaching to modify this difference as derived. Forrest et al and Hayashi teach a mounting member which is a block with an optical fiber mounted in V-shaped grooves in the block.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alessandro V. Amari whose telephone number is (571) 272-2306. The examiner can normally be reached on Monday-Friday 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ava *AV*
05 May 2004


MARK A. ROBINSON
PRIMARY EXAMINER